

Hole Name :CS-05-32

Date: 08 February 11

Segment Start Depth :178.03

Segment End Depth :356.06

End of hole Depth :2284.00

Depth	CoreLoss%	IF	V1	V2	PF	v	SG	AltCode	FmCode	RockCod	Description	TCU_adj	ASCU_adj	MO
200	25													
225	25													
250														
275								nd	Qal	Qal	Rock bit. No Core.			
300														
325														
350														



Gunnison Project- Historical Log

Hole Name :CS-05-32

Date: 08 February 11

Segment Start Depth :356.06

Segment End Depth :534.08

End of hole Depth :2284.00

Depth	CoreLoss%	IF	V1	V2	PF	v	SG	ltnCode	ltnCode	ltnCode	Description	TCU_adj	ASCU_adj	MO
375	5													
400	5													
425	5													
450	5							nd	Qal	Qal	Rock bit. No Core.			
475														
500														
525														

Scale 1" = 30'



Date: 08 February 11

End of hole Depth :2284.00

Depth	CoreLoss%	IF	V1	V2	PF	v	SG	AltCode	FmCode	RockCode	Description	TCU_adj	ASCU_adj	MO
550	75 50 25													
575														
600														
625									Qal	Qal	Rock bit. No Core.			
650														
675														
700														
									IPeI	L	Gray with a tinge of reddish-brown and limestone after minute pyrite crystals. Very fine-grained lime.			
									IPeI	L	Rock bit. No core.			

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Hole Name :CS-05-32

Date: 08 February 11

Segment Start Depth :712.11

Segment End Depth :890.14

End of hole Depth :2284.00

Depth	CoreLoss%	IF	V1	V2	PF	v	SG	AltCode	FmCode	LockCode	Description	TCU_adj	ASCU_adj	MO
725	25													
750														
775														
800														
825														
850														
875														

Hole Name :CS-05-32

Date: 08 February 11

Segment Start Depth :890.14

Segment End Depth :1068.17

End of hole Depth :2284.00

Depth	CoreLoss%	IF	V1	V2	PF	v	SG	AltCode	FmCode	RockCod	Description	TCU_adj	ASCU_adj	MO
900	25									IPel L	Rock bit. No Core.			
										IPel L	gray, reddish- brown to pinkish- white and fossiliferous. Fossils are generally circular with a long axis.			
925														
950														
975										IPel L	Rock bit. No Core.			
1000														
										IPel L	Tannish-gray ; fine to medium -grained. There are some possible algal structures in the unit between 905 and 910.			
1025										IPel L	Rock bit. No Core.			
1050										IPel L	Dark gray with a tinge of dark reddish - brown, occasionally containing some fossil hash possibly shaley.			
		BED	50							IPel L	White and pink. Pink where iron stained. Occasionally thin- bedded with the bedding cutting the core axis at approximately 50 degrees.			

Hole Name :CS-05-32

Date: 08 February 11

Segment Start Depth :1068.17

Segment End Depth :1246.19

End of hole Depth :2284.00

Depth	CoreLoss%	IF	V1	V2	PF	v	SG	AltCode	EmCode	LockCode	Description	TCU_adj	ASCU_adj	MO
1075	5	BED	50								White and pink. Pink where iron stained. Occasionally thin- bedded with the bedding cutting the core axis at approximately 50 degrees.			
		FLT									Highly described but healed. Abundant iron staining along fractures. The cementing gouge is most iron stained, many of the fragments are green quartzite.			
1100											White and pink abundant fossils possibly crinoidal. This would appear to be typical pink coloration found in the Earp formation.			
		FLT									Brecciated and healed over the middle 2 feet. The remainder being bright red and of course quite iron stained. Fragments are bright red limestone and greenish-brown limestone. Possibly shaley.			
1125											Olive gray-green to pink, highly fossiliferous with possible crinoids up to half inch cross section.			
											White with a tinge of pink stylilitic. Stylilites are rusty colored , quite abundant.			
1150											Medium blue-gray ; medium-grained. Slightly fossiliferous. Containing possible fusulinids at 1150. They are iron stained but somewhat wheat shaped,			
											Pinkish limestone fragments cemented by white calcite and calcite crystals,			
											Dark blue-gray; possibly shaley, fine to medium grained , becoming somewhat iron stained over the last foot. Completion of drilling for this year's assessment work on the section 5 and 32 at 1172. The last six feet of the hole were rotaried with no core . Continuation of assessment work for this year starts at 1172.			
1175											Rock bit. No Core.			
											White , becoming pink towards the base. Stylilitic moderately broken, quartz -feldspar vein at 1180 to 1181.			
1200											Dark gray with a tinge of dark reddish-brown. Thin - bedded towards the base , containing what appears to be a large somewhat circular fossils in the upper half. These may be algal remains. Bedding cuts the core axis at 1207 at approximately 35 degrees.			
1225											Pink and white . Pink over the first 8 feet and last 4 feet . Light portions contain abundant brown flakes or specks which may be limonite replacement of fossiliferous remains.			
											Abundant gouge and limestone fragments.			
											Pinkish - white			
											Fine-grained ; greenish - gray with occasional blebs of red.			
											Pink and white ;medium-grained. Occasional calcite crystals along fractures and limonite staining along fractures.			

Hole Name :CS-05-32

Date: 08 February 11

Segment Start Depth :1246.19

Segment End Depth :1424.22

End of hole Depth :2284.00

Depth	CoreLoss%	IF	V1	V2	PF	v	SG	AltCode	FmCode	RockCode	Description	TCU_adj	ASCU_adj	MO
1250	25													
1275										IPel L	Pink and white ;medium-grained. Occasional calcite crystals along fractures and limonite staining along fractures.			
1300		FLT								IPel L	Bright red, brecciated and healed. Also white and brown. Fragments and rock mostly of limestone. Possibly shaley.			
										IPel L	White and red between 1309 and 1312 with abundant small limonite stained spots which may be after pyrite or fossils.			
1325										IPel L	Brick red to reddish-brown; fine-grained. Possibly Shaley.			
									nd	IPel L	Pink and white ; medium-grained ,iron stained along some fractures. Stylolitic and somewhat fossiliferous. Iron stained along fractures.			
1350														
1375										IPel L	White and pink, stylilitic, iron stained along fractures. This limestone contains somewhat less red coloration.			
1400										IPel L	Fossiliferous, fine to medium-grained with abundant zones which are brick red to pink. The white lime portions are stylolitic.			

Hole Name :CS-05-32

Date: 08 February 11

Segment Start Depth :1424.22

Segment End Depth :1602.25

End of hole Depth :2284.00

Depth	CoreLoss%	IF	V1	V2	PF	v	SG	AltCode	FmCode	LockCode	Description	TCU_adj	ASCU_adj	MO
1450	25										Fossiliferous, fine to medium-grained with abundant zones which are brick red to pink. The white lime portions are stylolitic.			
1475											Fine to medium-grained, fossiliferous rarely thin-bedded. The difference between this unit and the one above is that contains less brick red to pink coloration. Bedding cuts the core at axis at 1421 at approximately 35 degrees and at 1438 at approximately 70 degrees.			
											Thin-bedded and fissile? Gray to red with abundant hematite along fractures. Unit does contain abundant fossils over the first few feet. Bedding cuts the core axis at approximately 45 degrees			
											Medium-grained ; medium to dark gray.			
											Brecciated and healed . Abundant hematite staining. Fragments may be in part Shaley.			
1500											White, Pink, brick red and grey with possible algal or fossiliferous remains between 1496 and 1500.			
1525											White and pink, highly fossiliferous. Stylolitic with abundant hematite staining along fractures.			
											Brick red to pink, fossiliferous, medium-grained.			
1550											White , fine -grained , fossiliferous, limestone along fractures, white.			
1575											Dark gray, possibly shaley, abundant fossils through. Shell- like remains, crinoids, and numerous smaller fragments. Possibly fusulinids. This unit would appear to be shaley conglomerate bed at 1621 to 1623, pebbles are approximately 4 inches long and show a crude foliation parallel to the bedding which cuts the core axis at approximately 30 degrees.			
1600														

Hole Name :CS-05-32

Date: 08 February 11

Segment Start Depth :1602.25

Segment End Depth :1780.28

End of hole Depth :2284.00

Depth	CoreLoss%	IF	V1	V2	PF	v	SG	AltCode	FmCode	LockCode	Description	TCU_adj	ASCU_adj	MO
1625	25													
	50													
	75													
	100													
1625		BED	30								Dark gray, possibly shaley, abundant fossils through. Shell- like remains, crinoids, and numerous smaller fragments. Possibly fusulinids. This unit would appear to be shaley conglomerate bed at 1621 to 1623, pebbles are approximately 4 inches long and show a crude foliation parallel to the bedding which cuts the core axis at approximately 30 degrees.			
1650														
1675														
1700								nd			White, light gray, and medium gray, fine to medium-grained, highly fossiliferous.			
1725											Medium to dark gray; fine -grained fossiliferous with abundant white calcite veinlets.			
1750														
1775											Dark blue-gray, generally fine-grained, becoming coarser from 1760 to the bottom. Abundant calcite filled fracture, limonite filled fractures and fossiliferous.			

Hole Name :CS-05-32

Date: 08 February 11

Segment Start Depth :1780.28

Segment End Depth :1958.30

End of hole Depth :2284.00

Depth	CoreLoss%	IF	V1	V2	PF	v	SG	AltCode	FmCode	RockCode	Description	TCU_adj	ASCU_adj	MO
1780	25									IPh L	Dark blue-gray, generally fine-grained, becoming coarser from 1760 to the bottom. Abundant calcite filled fracture, limonite filled fractures and fossiliferous.			
1800										IPh L	White, medium -grained, somewhat marbled, minor pink zones.			
1825										IPh Sh	Blue-gray, fossiliferous ,fine grained			
										IPh Sh	Red, highly broken, not limey.			
1850										IPh L	white, pale bluish-gray and a tinge of pink, some pink and blue- gray mottling in the first several feet. Unit may be sandy over first few feet.			
										IPh L	Pink and white, mottled by dark gray lime.			
1875									nd					
1900										IPh L	Mostly white and fine -grained , but occasionally medium to coarse-grained with possible chert beds infrequently throughout the unit. Also abundant limestone stained veinlets associated with gypsum. There again is abundant mottling of brown,pinkish-brown,and tan lime.			
1925										IPh Q	Somewhat shaley, medium gray to greenish-gray and brownish-gray, somewhat thin bedded.			
		BED 85								IPh Sh	Somewhat sandy and occasionally Quartzitic and thin-bedded. Bedding cuts the core axis at approximately 85 degrees.			
										IPh L	Hornfelsized, thin-bedded with limonite and hematite along with fractures.			
1950										IPh L	White, pale gray and pink,			
		CRN								IPh Sh	Hornfelsic shale and shaley quartzite. Dark gray, thin bedded ,wavy and crenulated bedding. Iron oxides along fractures, least 5 feet significantly broken.			

Scale 1" = 30'

Hole Name :CS-05-32

Date: 08 February 11

Segment Start Depth :1958.30

Segment End Depth :2136.33

End of hole Depth :2284.00

Depth	CoreLoss%	IF	V1	V2	PF	v	SG	AltCode	FmCode	LockCode	Description	TCU_adj	ASCU_adj	MO
1958.30	5	CRN									IPh Sh			
1975	5	VUG									IPh L			
2000											IPh Sh			
2025											IPh L			
											IPh L			
											IPh L			
2050											IPh L			
2075		VN									IPh L			
2100											IPh L			
2125		VUG									IPh L			
		FLT									IPh L			

Hole Name :CS-05-32

Date: 08 February 11

Segment Start Depth :2136.33

Segment End Depth :2314.36

End of hole Depth :2284.00

Depth	CoreLoss%	IF	V1	V2	PF	v	SG	ltnCode	ltnCode	ltnCode	Description	TCU_adj	ASCU_adj	MO
2150	5	VUG							IPh	L	White, tan, Stylolitic and vuggy with two small healed breccia zones, one at 2125 and the second at 2134-2136. there us a minor amount of chert with calcite in fractures. Last two feet are mottled from gray progressively to dark grayish-black, Somewhat reminiscent of the algal structure described in the strong & Harris area.			
									IPh	Sh	Dark bluish-gray to black. Occasionally with dark reddish-brown. Occasionally mottled, not limey, slightly fissile.			
									IPh	L	White, somewhat marbled.			
2175									IPh	L	White with few dark gray bands.			
									IPh	L	Possibly a slightly limey black with dark gray dolomite. Massive, medium-grained.			
									IPh	L	White , medium-grained , somewhat marbled , stylolitic.			
2200														
2225									IPh	Lsh	Dark, reddish-brown, bluish-gray mostly medium-grained, not fissile, but massive. Moderately to highly broken from 2210 to 2230 and again from 2239 to 22443 It would appear that most of this unit more likely shaley limes than limey shale.			
2250									IPh	Lsh	Probably mostly shaley limes. Blue-gray, brown and red. Quite broken and gougy between 2266 and 2270 and again between 2274 and 2275. Highly broken between 2270 and 2274.			
2275									IPh	L	Medium blue-gray, medium-grained, fossiliferous.			
											EOH			
2300														